

E 1. (Currently amended) A telephone network for a structured site, essentially of a business office type, [comprising] consisting essentially of a common single bus of a local external computer network connecting computers at the transmitting and receiving ends of the telephone network for a structural site and telephone sets connected directly to said telephone network to provide telephone communication between the parties at the transmitting and receiving ends through said local computer network, wherein it is provided with a computer telephony server connected directly to the bus of the local computer network and to a general telephone network, each telephone set is provided with an interface, each telephone set interface being connected, directly to the bus of the local computer network connecting computers, the interface being capable of converting analog/digital signals adapted to the clock frequency of the local computer network, user call signals into addresses of other interfaces connected to said local computer network, and hang-up signals whereby the telephone sets can communicate with each other without computers by the telephone sets connected to the local computer network.

2. (Previously amended) A network as claimed in claim 1, wherein at least some of the computers connected to said telephone network are provided with multimedia software to allow direct voice telephone communication.

3. (Previously amended) A network as claimed in claim 1, wherein the interface has a transmission channel and reception channels, the transmission channel having a signal detector-distributor with an input connected to a telephone set, a first output of said signal detector-distributor being connected to the input of a tone dialing recognition device having its output connected to the input of a recognized number transmission device, which has its output connected to the local computer network, a

second output of the signal detector-distributor being connected to the input of an analog-to-digital converter having its output connected to the input of a compressor whose output is connected to a processor unit having software to allow exchange of digital data to be effected within the framework of common network protocols, and the reception channel having a voice and tone signal transmission priority device having its output connected to the telephone set, and a first input connected to the output of a call signal dialer, whose input is connected to a call number data converter having its input connected to the local computer network, a second input of the voice and tone signal transmission priority device being connected to the output of a voice signal transmitter, whose input is connected to the output of a decompressor having its input connected to said processor unit.

4. (Original) A network as claimed in claim 3, wherein said processor unit comprises a central processor connected to digital data input-output devices and to a stored-program memory and a random access memory to allow exchange of digital data to be effected within the framework of common network protocols.

5. (Currently amended) A system to maintain telephone communication between remote structured sites, comprising, at a first site, an internal telephone network including a common bus of a local computer network to connect computers at the transmitting and receiving ends of the system, a computer telephony server connected to the bus of the local computer network of said site and to the general telephone network, and telephone sets to provide telephone communication between parties at the transmitting and receiving ends through said local computer network, each telephone set is provided with an interface, each telephone set interface being directly connected to the

bus of the local computer network, the interface being capable of converting analog/digital signals adapted to the clock frequency of the local network, user call signals into the addresses of other interfaces connected to said local computer network, and hang-up signals, each successive site having an internal telephone network duplicating the internal telephone network of the first site, the local computer network of each site being provided with a router connected thereto and to a router of the local computer network of at least one other site through a communication channel of the computer networks of the remote structured sites whereby the telephone sets can communicate directly with each other without computers .

6. (Currently amended) A system as claimed in claim 5, wherein at least some of the computers connected to said internal telephone network are provided with multimedia software to allow direct voice telephone communication and said network is free of specialized switching devices.

7. (Previously amended) A system as claimed in claim 5, wherein the interface has a transmission channel and at least one reception channel, the transmission channel having a signal detector-distributor connected to the input of the telephone set and a first output connected to the input of a tone dialing recognition device, whose output is connected to the input of a recognized number transmission device having its output connected to the local computer network, a second output of the signal detector-distributor being connected to the input of an analog-to digital converter having its output connected to the input of a compressor whose output is connected to a processor unit provided with software to allow exchange of digital data to be effected within the framework of common network signal transmission priority device being connected to

the output of a voice signal transmitter, whose input is connected to the output of a decompressor having its input connected to said processor unit.

8. (Original) A system as claimed in claim 7, wherein said processor unit is a central processor connected to a digital data input-output device and to a stored-program memory and to a random access memory to allow exchange of digital data within the framework of common network protocols.

9. (Currently amended) A telephone network for a structured site, essentially of a business office type, comprising a common bus of a local computer network connecting computers at the transmitting and receiving ends of the telephone network for a structured site and telephone sets to provide telephone communication between the parties at the transmitting and receiving ends through said local computer network, each said telephone set being provided with an interface, each telephone set interface being connected, directly to the bus of the local computer network, the interface being capable of converting analog/digital signals adapted to the clock frequency of the local computer network, user call signals into addresses of other interface connected to said local computer network, and hang-up signals whereby the telephone sets can communicate with each other without computers by the telephone sets connected to the local computer network .

10. (Previously amended) A network as claimed in claim 9, wherein the interface has a transmission channel and at least one reception channel, the transmission channel having a signal detector-distributor with an input connected to a telephone set, a first output of said signal detector-distributor being connected to the input of a tone dialing recognition device having its output connected to the input of a recognized

number transmission device, which has its output connected to the local computer network, a second output of the signal detector-distributor being connected to the input of an analog-to-digital converter having its output connected to the input of a compressor whose output is connected to a processor unit having software to allow exchange of digital data to be effected within the framework of common network protocols, and at least one reception channel having a voice and tone signal transmission priority device having its output connected to the telephone set and a first input connected to the output of a call signal dialer, whose input is connected to a call number data converter having its input connected to the local computer network, a second input of the voice and tone converting analog/digital signals adapted to the clock frequency of the local computer network, user call signals into addresses of other interface connected to said local computer network, and hang-up signals.

11. (Original) The network as claimed in claim 10, wherein the digital signals are converted into signals compatible with the network protocol.

12. (Original) The network as claimed in claim 9, wherein at least some of the computers connected to said network are provided with multimedia software to allow direct voice telephone communication.